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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,170	04/20/2001	Shigemi Kurashima	1614.1162	9034

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EXAMINER	
NGUYEN, KIMNHUNG T	
ART UNIT	**PAPER NUMBER**
2674	

DATE MAILED: 05/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/838,170	KURASHIMA ET AL.	
	Examiner	Art Unit	
	Kimnhung Nguyen	2674	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *25 October 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-30* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-30* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

This application has been examined. The claims 1-30 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berstis (US 6,229, 526) in view of Hsien (US 6,441,804).

Regarding claims 1, 16, 30, Berstis discloses in figures 1-5, an input system (101, 103, figure 1A) comprising an information generation part which generates input information based on a given input operation; a transmission part (336) transmitting signals of the input information (see column 4, lines 44-49, column 9, lines 38-49); and a reception part (370, figure 5) receiving the transmitted signals and demodulating (374) the signals into the same input information (101,103). However, Berstis does not disclose a transmission part (336) transmitting signals generated by having a plurality of different carrier frequencies modulated with the same input information. Hsien discloses in fig. 2, a

transmitter and receiver for the wireless cursor control system having a plurality of different carrier frequencies modulated with the same input information of pointing device (see variable frequency modular circuit, see col. 3, lines 44-51, and col. 4, lines 12-21). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using of a plurality of different carrier frequencies modulated with the same input information of pointing device as taught by Hsien into the system of Berstis because this would provide to the user to select different frequencies when employing more than one wireless cursor pointing (see Hsien).

Regarding claims 2, 17, Berstis discloses in figure 3, the input system further comprising wave direction parts which are provided close to said transmission part so as to provide the signals transmitted from said transmission part with directivity (see polling signal). Regarding claims 3, 15, 18 and 27, Berstis discloses wherein said wave direction parts are antennas (see polling signal).

Regarding claims 4, 19, Berstis discloses wherein said transmission part comprises a plurality of transmission circuits (see figure 3). However, Berstis does not disclose the transmitting the signals of the different carrier frequencies. Hsien discloses the transmitting the signals of the different carrier frequencies as discussed above.

Regarding claims 5-6, 20-21, Berstis discloses in figures 3 and 5, wherein said transmission part comprises an output part (336, figure 3), and modulation part (374,

figure 5). However, Berstis does not disclose a transmission part comprises an output part, which outputs which has the different carrier frequency modulated with the same input information. Hsien discloses a transmission part comprises an output part which outputs which has the different carrier frequency modulated with the same input information as discussed above.

Regrading claim 7, Berstis discloses wherein said reception part (370, figure 5) comprises a plurality of reception circuits (see figure 5) for receiving the transmitted signals and demodulating (374) the signals into the input information (see figure 5).

Regarding claims 8-9, 22, Berstis discloses the input system further comprising an inherent pad member including conductive wire, and further comprising a conductive part (remote control).

Regarding claims 10, 23, Berstis discloses an inherent conductive plate member (printed circuit board), and conductive part (remote control), therefore, wherein said conductive part contacts said conductive plate member so that the signals transmitted from the transmission part are transmitted via said conductive part to the conductive plate member.

Regarding claim 11, Berstis discloses wherein the input system comprising a plurality of wave direction parts (see polling signal) for receiving the signals transmitted from said

transmission part (336, figure 3), said wave direction parts being provided on a side of said reception part (370, figure 5).

Regarding claims 12, 24, Berstis discloses in figures 1-5, an input system comprising a transmission part (336, figure 3) transmitting signals generated by the same input information (101, 103). Hsien discloses the transmitting generated by a plurality of different carrier frequencies modulated with the same input information as discussed above. Furthermore, Berstis discloses a plurality of wave direction parts (see polling signal, figure 3) which are provided close to said transmission part so as to provide the signals transmitted from said transmission part with directivity so that the same input information is transmitted alternately from the wave direction parts, and a reception part (370) receiving the transmitted signals and demodulating (374) the signals into the same input information (see 101, 103, figure 1A).

Regarding claims 13, 25, and 28-29, Berstis discloses in figure 1D, the input system further comprising a switching part (see button in figure 1D, or switches 318, 320, 322, 324 of figure 2) which transmits the transmitted signal selectively to one of said wave direction parts based on a control signal supplied from said information generation part.

Regarding claims 14 and 26, Berstis discloses in figure 3, wherein said transmission part (336) comprises a plurality of transmission circuits (figure 3) for transmitting the signal.

Regarding claim 23, Berstis discloses a conductive part (remote control 106) on a bottom of the input device, wherein said conductive part contacts an inherent conductive plate member (may be printed circuit board) so that the signals transmitted from said transmission part are transmitted via said conductive part to the conductive plate member.

Response To Arguments

3. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on **(703) 305-4709.**

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen
January 25, 2005

ALEXANDER EISEN
PRIMARY EXAMINER
TECHNOLOGY CENTER 2600